IN THE CLAIMS

Please amend the claims as follows:

1   Claim 1 (Currently Amended): A communication system on an IP network (50)

2   between an automation equipment (10) comprising:

3   at least one processing unit capable of running a program (20) to provide automation

4   functions; and

5   one or more remote devices (30) running a computer program or group of computer

6   programs, ~~characterised in that~~

7   wherein the communications system is based on the Simple Object Access Protocol

8   (SOAP) for the purpose of providing the remote device (30) with supervision, display,

9   control, configuration or programming functions of the automation equipment (10), and ~~in~~

10   ~~that~~ the communications system comprises, in the automation equipment (10), at least one

11   WEB service (21) or one WEB client (22) which are capable of interacting with the program

12   (20) of the automation equipment (10), of decoding messages received (51, 54) from the IP

13   network (50) encoded according to the SOAP protocol and of encoding according to the

14   SOAP protocol messages to be sent (52, 53) on the IP network (50).

15

16   Claim 2 (Currently Amended): A communication system according to claim 1,

17   wherein the ~~characterised in that an~~ automation equipment (10) includes at least one WEB

18   service (21) able to receive from the IP network (50) requests (51), coming from at least one

19   WEB client application (31) contained in a remote device (30) and of sending on the IP

20   network (50) responses (52) to the WEB client application (31) of the remote device (30).

21

22   Claim 3 (Currently Amended): A communication system according to claim 1,

23   wherein the ~~characterised in that an~~ automation equipment (10) includes at least one WEB

3

1   client (22) able to send on the IP network (50) requests (53) to at least one WEB server

2   application (32) contained in a remote device (30) and of receiving from the IP network (50)

3   responses (54), coming from the WEB server application (32) of the remote device (30).

4

5   Claim 4 (Currently Amended): A communication system according to claim 2, further

6   wherein characterised in that a service description document (61) describes the capacities of

7   one or more WEB services (21) implanted in the an automation equipment (10), this service

8   description document (61) being accessible by the for a remote device (30, 30") either from

9   its local resources, or from remote resources identified by a URL, URI or IP address.

10

11   Claim 5 (Currently Amended): A communication system according to claim 4,

12   wherein characterised in that the service description document (61) complies with a service

13   description language referring to the SOAP protocol or to the HTTP, HTTPS protocol and

14   providing a grammar based on the eXtensible Markup Language (XML).

15

16   Claim 6 (Currently Amended): A communication system according to claim 5,

17   wherein characterised in that the service description document (61) may contain one or more

18   URL, URI or IP addresses of one or more WEB services (21).

19

20   Claim 7 (Currently Amended): A communication system according to claim 6,

21   wherein characterised in that the service description document (61) complies with the Service

22   Description Language (SDL).

23

1   Claim 8 (Currently Amended): A communication system according to claim 6,

2 wherein ~~characterised in that~~ the service description document ~~(61)~~ complies with the SOAP

3 Contract Language (SCL).

4

5   Claim 9 (Currently Amended): A communication system according to claim 6,

6 wherein ~~characterised in that~~ the service description document ~~(61)~~ complies with the

7 Network Accessible Service Specification Language (NASSL).

8

9   Claim 10 (Currently Amended): A communication system according to claim 6,

10 wherein ~~characterised in that~~ the service description document ~~(61)~~ complies with the Web

11 Services Description Language (WSDL).

12

13   Claim 11 (Currently Amended): A communication system according to claim 6,

14 wherein ~~characterised in that~~ several service description documents ~~(61)~~ complying with

15 different service description languages can describe the capacities of a same WEB service

16 ~~(21)~~.

17

18   Claim 12 (Currently Amended): A communication system according to claim 11,

19 wherein ~~characterised in that~~ the service description document ~~(61)~~ is compressed in a

20 standard compression format for files and documents.

21

22   Claim 13 (Currently Amended): A communication system according to claim 11,

23 wherein ~~characterised in that~~ the service description document ~~(61)~~ of an automation

24 equipment ~~(10)~~ is stored in storage means ~~(60)~~ located in the automation equipment ~~(10)~~.

25

1   Claim 14 (Currently Amended): A communication system according to claim 11,

2   wherein ~~characterised in that~~ the service description document (61) of an automation

3   equipment (10) is stored in storage means (60') located in a remote device (30').

4

5   Claim 15 (Currently Amended): A communication system according to claim 11,

6   wherein ~~characterised in that~~ a generator (62) is capable, following a request emanating from

7   a remote device (30, 30"), of constructing a service description document (61) dynamically,

8   describing the capacities of one or more WEB services (21) implanted in an automation

9   equipment (10).

10

11   Claim 16 (Currently Amended): A communication system according to claim 15,

12   wherein ~~characterised in that~~ the generator (62) of a service description document (61) of an

13   automation equipment (10) is accessible, for a remote device (30, 30"), via a URL, URI or IP

14   address.

15

16   Claim 17 (Currently Amended): A communication system according to claim 16,

17   wherein ~~characterised in that~~ the generator (62) of a service description document (61) of an

18   automation equipment (10) is stored in storage means (60) located in the automation

19   equipment (10) or in storage means (60') located in a remote device (30').

20

21   Claim 18 (Currently Amended): A communication process on an IP network (50)

22   between an automation equipment (10) running a program (20) to provide automatic control

23   functions and a remote device (30) running a computer program or group of computer

24   programs, the purpose of the communication process being to provide the remote device (30)

25   with supervision, display, control, configuration or programming functions of the automation

1   equipment ~~(10)~~, ~~characterised in that~~ the communication process ~~is~~ based on a

2   communications system based on the SOAP protocol and <u>comprising</u> ~~comprises the~~

3   ~~following stages~~:

4   <u>running a computer application in the remote device or in another remote device;</u>

5   ~~A service discovery stage (A) wherein a computer application (33), running in the~~

6   ~~remote device (30) or in another remote device (30''), sends~~ <u>sending from the application</u> a

7   read request ~~(55)~~ on the IP network ~~(50)~~ in order to receive, in a response ~~(56)~~, a service

8   description document ~~(61)~~,

9   ~~A development stage (B) wherein,~~ <u>developing, manually or automatically,</u> by means

10   of the service description document ~~(61)~~, ~~it is possible to develop manually or automatically,~~

11   all or part of a WEB client application ~~(31)~~ and/or a WEB server application ~~(32)~~ in the

12   remote device ~~(30)~~ so as to be able to communicate with a WEB service ~~(21)~~ and/or a WEB

13   client ~~(22)~~ of the automation equipment ~~(10)~~ respectively.

14   ~~A communication stage (C)~~ <u>communicating</u> between a WEB client application ~~(31)~~

15   and/or a WEB server application ~~(32)~~ of the remote device ~~(30)~~ and a WEB service ~~(21)~~

16   and/or a WEB client ~~(22)~~ of the automation equipment ~~(10)~~ on the IP network ~~(50)~~, by means

17   of requests ~~(51, 53)~~ and responses ~~(52, 54)~~ complying with the SOAP protocol.

18

19   Claim 19 (Currently Amended): A communication process on an IP network ~~(50)~~

20   between an automation equipment ~~(10)~~ running a program ~~(20)~~ to provide automatic control

21   functions and a remote device ~~(30)~~ running a computer program or group of computer

22   programs, the purpose of the communication process being to provide the remote device ~~(30)~~

23   with supervision, display, control, configuration or programming functions of the automation

24   equipment ~~(10)~~, ~~characterised in that~~ the communication process ~~is~~ based on a

1   communications system based on the SOAP protocol and <u>comprising</u> ~~comprises the~~

2   ~~following stages~~:

3   <u>running a computer application in the remote device;</u>

4   ~~- A service discovery stage (A) wherein a computer application (33), running in the~~

5   ~~remote device (30), sends~~ <u>sending from the application</u> a read request ~~(55)~~ on the IP network

6   ~~(50)~~ in order to receive, in a response ~~(56)~~, a service description document ~~(61)~~,

7   ~~- A communication stage (C)~~ <u>communicating</u> between a WEB client application ~~(31)~~

8   and/or a WEB server application ~~(32)~~ included in the computer application ~~(33)~~ of the remote

9   device ~~(30)~~ and a WEB service ~~(21)~~ and/or a WEB client ~~(22)~~ of the automation equipment

10   ~~(10)~~ on the IP network ~~(50)~~, by means of requests ~~(51, 53)~~ and responses ~~(52, 54)~~ complying

11   with the SOAP protocol.

12

13   Claim 20 (Currently Amended): A communication process according to one of claims

14   18 or 19, <u>wherein</u> ~~characterised in that~~ the request ~~(55)~~ contains a URL, URI or IP address

15   which marks either a service description document ~~(61)~~, or a generator ~~(62)~~ capable of

16   constructing a service description document ~~(61)~~ dynamically.